

Additional Resources:

Ethics

Title: **Leave No Trace: A Guide to the New Wilderness Etiquette**

Format: Manual/Book

Date Developed: 1998

Description: A guide to minimum-impact practices and techniques for outdoor outings; includes several sidebars that outline key points

Source: [American Camping Association](#)

Title: **Passport to High Adventure**

Format: Manual/Book

Date Developed: 1997

Description: Information about “Leave No Trace,” a nationally recognized outdoor skills and ethics education program

Source: [Boys Scouts of America](#)

General

Title: **Fieldbook**

Format: Manual/Book

Date Developed: 1984

Description: Seven chapters discuss natural resources and the environment; contains information about ecosystems, the water cycle, food chains, succession, plants, and animals

Source: [Boys Scouts of America](#)

Title: **National Outdoor Leadership School**

Format: Course

Date Developed: ?

Description: Extended wilderness expedition to learn and practice the skills, from two weeks to twelve

Source: [National Outdoor Leadership School](#)

Title: **Outdoor Living Skills Field Guide**

Format: Lesson plan/Activity

Date Developed: 2002

Description: Lesson plans to teach about pollution, nature, water cycles, food chains, and ecosystems

Source: [American Camping Association](#)

Title: **Outdoor Living Skills Program Manual**

Format: Manual/Book

Date Developed: 2002

Description: Information about ecosystems, communities, diversity, adaptation, food chains, natural cycles, and conservation

Source: [American Camping Association](#)

Iowa's Natural Resources

Title: **2001 Iowa State Comprehensive Recreation Plan (SCORP)**

Format: Manual/Book

Date Developed: 2002

Description: An evaluation of Iowa's outdoor recreation users, supply, opportunities, issues, attitudes, and priorities

Source: [Iowa DNR](#)

Title: **A Country So Full of Game**

Format: Manual/Book

Date Developed: 2002

Description: Information about Iowa wildlife at the time of settlement and how the actions of settlers led to the disappearance of many wildlife species

Source: [University of Iowa Press, Iowa City](#)

Title: **An Iowa Supplement to Project WILD**

Format: Manual/Book

Date Developed: 2002

Description: Overview of Iowa's wildlife resources; includes information about history and current status of Iowa wildlife, wildlife species, habitat types, and wildlife management

Source: [Iowa DNR](#)

Title: **An Iowa Supplement to Project WILD Aquatic**

Format: Manual/Book

Date Developed: 2002

Description: Overview of Iowa's aquatic resources; includes information Iowa's waters, aquatic animals, ecosystems, and importance of Iowa's aquatic resources

Source: [Iowa DNR](#)

Title: **An Iowa Supplement to Project Learning Tree**

Format: Manual/Book

Date Developed: 2002

Description: Overview of Iowa's forestry resources; includes information about forests types, tree identification, forest animals, tree biology, forest cycles, and benefits of forests

Source: [Iowa DNR](#)

Title: **Iowa – Portrait of the Land**

Format: Manual/Book

Date Developed: 2000

Description: Documents the changes in Iowa's landscape from the arrival of the first Iowans to present times

Source: [Iowa DNR](#)

Title: **Fragile Giants: A Natural History of the Loess Hills**
Format: Manual/Book
Date Developed: 1989
Description: Describes cultural and natural resources of the past, present and future in Iowa's Loess Hills
Source: [University of Iowa Press, Iowa City ISBN: 0-87745-256-3](#)

Title: **Land of the Fragile Giants: Landscapes, Environments, and Peoples of the Loess Hills**
Format: Manual/Book
Date Developed: 1994
Description: Collection of essays about Iowa's loess hills
Source: [University of Iowa Press, Iowa City](#)

Title: **Landforms of Iowa**
Format: Manual/Book
Date Developed: 1991
Description: Overview of major Iowa landforms and their geologic history
Source: [University of Iowa Press, Iowa City \(Iowa Geological Survey Bureau\)](#)

Title: **Okoboji Wetlands**
Format: Manual/Book
Date Developed: 1964
Description: General information about wetlands and aquatic ecosystems
Source: [University of Iowa Press, Iowa City](#)

Orienteering/Map Skills

Title: **Basic Essentials Map and Compass**
Format: Manual/Book
Date Developed: 1997
Description: Detailed overview of maps and compasses and how to use them while navigating; includes several detailed illustrations, a common U.S. map symbols copy sheet, and a glossary of common terms
Source: [Boys Scouts of America](#)

Title: **Be Expert with Map and Compass: The Complete Orienteering Handbook**
Format: Manual/Book
Date Developed: 1994
Description: Step-by-step instructional book to train the inexperienced compass user; includes activities
Source: [Forestry Suppliers, Inc.](#)

- Title:* **Brunton® Navigation Curriculum**
Format: CD-ROM
Date Developed: 2002
Description: Lesson plans to teach basic map and compass skills; arranged by grade level categories (K-college); includes special lessons for families, outdoor education, search and rescue, and Scouts; contains several detailed printable worksheets and handouts
Source: [Brunton](#)
- Title:* **Fieldbook**
Format: Manual/Book
Date Developed: 1984
Description: Information about map reading, using a compass, orienteering, and map making; includes a two page topographic map symbols copy sheet and several illustrations
Source: [Boys Scouts of America](#)
- Title:* **Forestry Suppliers' Orienteering F.I.E.L.D. Kit**
Format: Manual/Book
Date Developed:
Description: Includes compasses, orienteering markers, guides, and a handbook for teachers with activities and lesson plans
Source: [Forestry Suppliers, Inc.](#)
- Title:* **Land Navigation Handbook: The Sierra Club Guide to Map and Compass**
Format: Manual/Book
Date Developed: 1983
Description: Basic information about using a compass and reading topographic maps; includes illustrations and a color, foldout topographical map
Source: [Forestry Suppliers, Inc.](#)
- Title:* **Orienteering**
Format: Manual/Book
Date Developed: 1990
Description: Pamphlet about basic orienteering techniques, using a topographic map, and orienteering competitions; includes detailed illustrations, a list of resources, and sources for equipment
Source: [Boys Scouts of America](#)
- Title:* **Orienteering and Map Games for Teachers**
Format: Manual/Book
Date Developed:
Description: Basic guide to orienteering for pre-school through secondary grades; includes activities and games
Source: [Forestry Suppliers, Inc.](#)

- Title:* **Outdoor Education in Girl Scouting**
Format: Manual/Book
Date Developed: 1996
Description: Short section discussing the parts of a compass, how to read and use maps, using a map and compass together, and orienteering; includes detailed illustrations, teaching activities, and a list of other resources
Source: [Girl Scouts of the USA](#)
- Title:* **Outdoor Living Skills Field Guide**
Format: Lesson plan/Activity
Date Developed: 2002
Description: Lesson plans for how to use a map and compass, read both, and use them together; includes materials needed, activities, and copy pages
Source: [American Camping Association](#)
- Title:* **Outdoor Living Skills Instructors Manual**
Format: Lesson plan/Activity
Date Developed: 1990
Description: Map and compass activity for a two to three day camping trip; includes lessons about declination, using maps and navigational markers, teaching others to complete a compass course, and how to use a map and compass together
Source: [American Camping Association](#)
- Title:* **Outdoor Living Skills Program Manual**
Format: Manual/Book
Date Developed: 2002
Description: General overview of how to read and use a map and compass; includes several detailed illustrations
Source: [American Camping Association](#)
- Title:* **Suunto® PC Orienteering Educational Package**
Format: CD-ROM
Date Developed: 2002
Description: Introduces students to maps and symbols and how to use a compass and map together; includes orienteering maps
Source: [Forestry Suppliers, Inc.](#)
- Title:* **Troop Program Features Vol. II**
Format: Manual/Book
Date Developed: 1999
Description: Map and compass skill activities for a campout
Source: [Boy Scouts of America](#)
- Title:* **Venturing Leader Manual**
Format: Manual/Book
Date Developed: 1998
Description: Activity plan for preparing for an orienteering competition; includes skill lessons, sources for equipment, and additional resources
Source: [Boy Scouts of America](#)

Safety

Title: **Everyday Wisdom: 1001 Expert Tips for Hikers**

Format: Manual/Book

Date Developed: 1997

Description: General information about preventing and treating common outdoor injuries and illnesses; includes a list of medical myths

Source: [American Camping Association](#)

Title: **Fieldbook**

Format: Manual/Book

Date Developed: 1984

Description: Overview of general safety considerations including cold and hot weather safety, wet and dry weather safety, and safety around animals and plants; lists common outdoor injuries, how to spot them, and how to treat; includes a wind chill chart, wind scale, and several other illustrations

Source: [Boys Scouts of America](#)

Title: **Outdoor Living Skills Field Guide**

Format: Lesson plan/Activity

Date Developed: 2002

Description: Lesson plans to teach outdoor safety issues; discusses safety topics related to weather, drinking water, first aid, animals, and plants

Source: [American Camping Association](#)

Title: **Outdoor Living Skills Program Manual**

Format: Manual/Book

Date Developed: 2002

Description: Information about safety issues and first aid; contains activities and safety tips

Source: [American Camping Association](#)

Title: **Passport to High Adventure**

Format: Manual/Book

Date Developed: 1997

Description: Information about weather safety, safety around plants and animals, and first-aid emergencies

Source: [Boys Scouts of America](#)

Survival

Title: **Fieldbook**

Format: Manual/Book

Date Developed: 1984

Description: Overview of basic emergency survival skills; includes a list of materials for a survival kit, diagrams of a snow pit and trench, and directions for making a solar still

Source: [Boys Scouts of America](#)

Title: **Wilderness Survival**
Format: Manual/Book
Date Developed: 2001
Description: Basic wilderness survival skills including first aid, appropriate dress, finding shelter, and signaling for help; lists other resources and agencies/organizations
Source: [Boys Scouts of America](#)

Web Sites

erg.usgs.gov/isb/pubs/factsheets/fs03501.pdf - Finding Your Way with a Map and Compass fact sheet

geocaching.com – guidelines for the sport; locations of geocaches

george.ecity.net/iaccb/ - Iowa Association of County Conservation Boards

interactive2.usgs.gov/learningweb/teachers/exploremaps.htm - online lesson plans, activities, and teacher's guide for grades 7-12

interactive2.usgs.gov/learningweb/teachers/mapadv.htm - online teaching packet for grades K-3

www.usgs.gov/pubprod/maps.html - United States Geological Survey mapping website

ortho.gis.iastate.edu/ - Iowa Geographic Image Map Server; topographic and land cover maps available online

refuges.fws.gov/ - America's National Wildlife Refuge System

www.geocities.com/Yosemite/Falls/9200/navigation_map_compass.html - Navigating with a Map and Compass lesson plans and activities

www.inhf.org/exploreiowa.htm - Iowa Natural Heritage Foundation "Explore Iowa"; Iowa outdoor recreation links, environmental education materials, publications, and a list of INHF land projects

www.iowadnr.gov - Iowa Department of Natural Resources; background information about Iowa's natural resources

www.isu.edu/outdoor/mapshort.htm - general map and compass teaching principles and suggested curriculum

www.learn-orienteeing.org - a tutorial on using a compass; includes navigating in difficult conditions and discusses magnetic declination

www.lib.utexas.edu/maps/map_sites/map_sites.html - links to topographic and other maps

www.orienteeingunlimited.com/ - Map Adventure Programs for schools, teacher training, and camps; includes general information about orienteeing

www.princeton.edu/~oa/manual/mapcompass.shtml - Outdoor Action Guide to Map and Compass; information taken from “The Backpackers Field Manual” by Rick Curtis

www.williams.edu/Biology/Faculty_Staff/hwilliams/Orienteering/o~index.html - information about maps, equipment, symbols, strategies, teaching, and more